



DATA SCHEDULE																		
Type	Sole Plate			Sliding Plate				Radius	Masonry P			Hole Loc.		Hgt.	Max. Bottom Fl. W.	Strength Limits State Loads	Service Limit State Loads	Allow Exp. (+/-) (Note 4)
	A	B	C	D	E	F	G		J	K	L	M	N	P				
ME50 - I	21	9 1/2	1 3/4	20	7 1/2	1 3/4	1 ±	11	21	11	1	8 1/2	1 1/2	3 3/4	12	200 k	120 k	.
ME50 - II	23	10 1/2	1 7/8	22	8 1/2	1 3/4	1 ±	12	23	12	1	9 1/2	1 3/4	3 3/4	14	300 k	185 k	1
ME50 - III	25	12 1/2	2	24	9 1/2	1 3/4	1 ±	15	25	13	1 1/4	10 1/2	2	4	16	400 k	250 k	1 1/4
ME50 - IV	27	13 1/2	2 1/8	26	11	2	1 ±	16	27	16	1 1/4	11 1/2	2 1/4	4 1/4	18	500 k	310 k	1 1/2
ME50 - V	29	15 1/2	2 3/8	28	13	2 1/4	1 ±	18	29	17	1 1/2	12 1/2	2 1/2	4 3/4	20	600 k	375 k	1 3/4
ME50 - VI	31	17	2 1/2	30	14 1/2	2 3/8	1 ±	20	31	20	1 1/2	13 1/2	2 3/4	4 7/8	22	700 k	440 k	2
ME50 - VII	33	18 1/2	2 1/2	32	15 1/2	2 3/8	1 ±	23	33	23	2	14 1/2	3	5 3/8	24	800 k	505 k	2 1/4
ME50 - VIII	35	19	2 5/8	34	16 1/2	2 1/2	1 ±	23	35	24	2 1/2	15 1/2	3 1/4	6	26	900 k	570 k	2 1/2
ME50 - IX	37	21	3	36	17 1/2	2 3/4	1 1/4 ±	26	37	25	2 1/2	16 1/2	3 1/2	6 1/2	28	1000 k	635 k	2 3/4
ME50 - X	39	21	3	38	17 1/2	2 3/4	1 1/4 ±	26	39	26	2 3/4	17 1/2	4	6 3/4	30	1100 k	700 k	3 1/4
ME50 - XI	41	22	3 1/4	40	18	3	1 1/2 ±	28	41	27	3	18 1/2	4 1/2	7 1/2	32	1200 k	760 k	3 3/4

Note: All dimensions are in inches.

Note:

- Sole and masonry plates to be ASTM A 709 Grade 50, steel painted to match finished bridge color, convex plate shall be a self lubricating bronze bearing plate conforming to 910.01.
- Fill slots and holes around anchor bolts with nonhardening caulking compound or elastic joint sealer.
- 1000 RMS (Finish all over) except where otherwise noted.
- Allowable expansion is based on a 60°F. temperature change from center slot setting at 60°F.
- Compressive strength of concrete bearing area shall be 3.5 ksi or greater.
- Top of sole plate must be beveled to fit grade of bottom flange.
- Unless otherwise noted, bearings shall be placed normal to Φ of stringer.
- Plates are to be shipped as units.
- If more than one size bearing is called for, Contractor may furnish all bearings of the larger size provided the bearing pads are altered to accommodate same. No increase in any prices bid will be allowed if this option is selected.
- All anchor bolts and washers shall be unpainted ASTM F 1554 Grade 36 galvanized steel. All nuts shall be unpainted ASTM A 563 galvanized steel.
- The maximum design rotation due to strength load combinations (θ_u) = 0.75".

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF STRUCTURES

BRONZE EXPANSION BEARING
MEDIUM LENGTH SPANS
(GRADE 50 STEEL)

